

SCOTT M. MATHESON
Governor

TEMPLE A. REYNOLDS
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

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July 22, 1981

Mr. Richard A. Dye
Chief Engineer
Atlas Minerals
Big Indian Mines
LaSal, Utah 84530

Act/037/006

Dear Richard:

The Division has reviewed the plan and design for the Rim Mine Water Treatment Facility. While the plan appears feasible, there are a number of areas which need to be addressed. The following lists areas of concern as well as general comment. Until these statements are addressed, the Division cannot approve this amendment to the plan.

Please call if you have question on this review.

Sincerely,

Sally Kefer
SALLY KEFER
RECLAMATION HYDROLOGIST

SK/te

cc: Tom Tetting

ATLAS MINERALS
RIM MINE WATER TREATMENT FACILITY

1. The applicant must submit this same design to the Utah Department of Health for review and application for an NPDES permit.
2. The sedimentation and radium precipitation process is apparently a feasible system. The calculated detention time is 12.2 days for 28,000 gpd flow which is more than adequate.
3. The applicant should notify the State of Utah Division of Water Rights to determine whether water rights for the mine discharge need to be issued (if they haven't been already).
4. What is the approximated life of the treatment facility? The applicant must provide a maintenance agreement to prevent excessive solids buildup and consequential "short-circuiting" of the treatment process.
5. If maintenance involves removal of the precipitated radium particles and the settled solids, with intent to bury materials on-site, then a toxicity analysis of such environmentally sound disposal method may be derived.